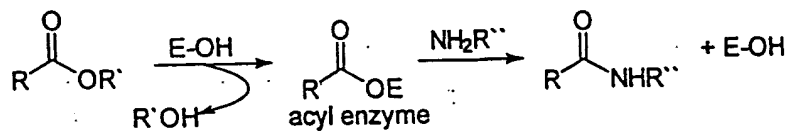


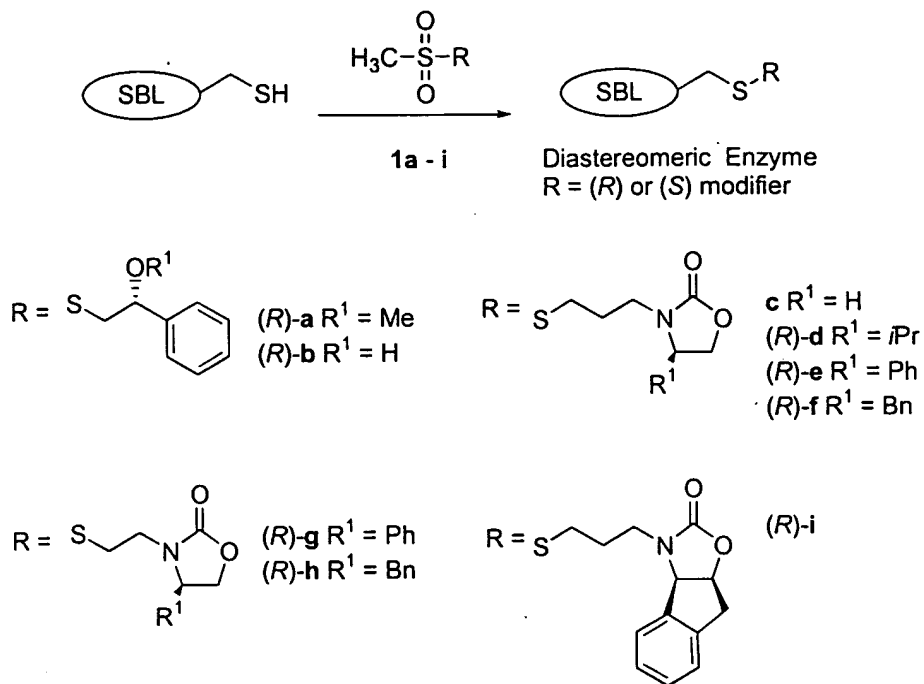
APPROVED	BY	DATE	FIG.
MAFTEMAN			
CLASS			
SSA CLASS			



**Fig. 1**

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CRAFTSMAN	CLASS

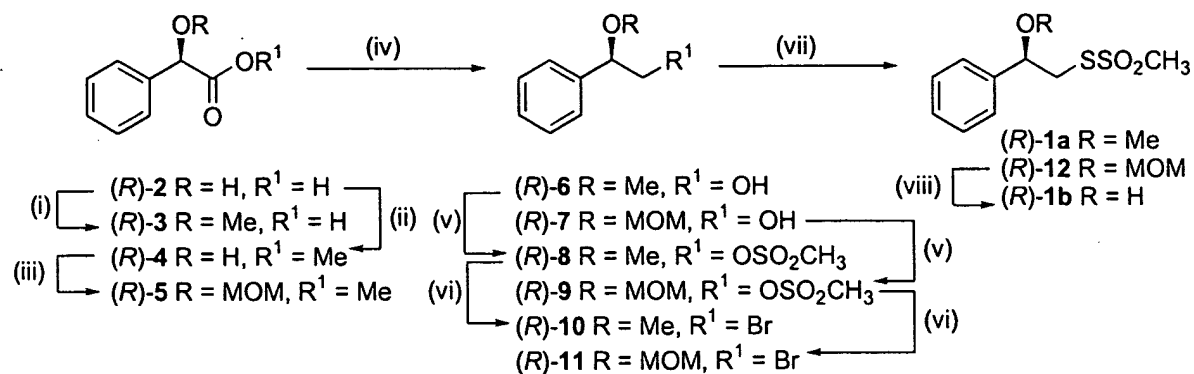
**Scheme 1. Modification of SBL mutants with Chiral Auxiliaries.**



The corresponding (S) MTS ligands follow the same code scheme (i.e. (S)-a, (S)-b, (S)-d, (S)-e, (S)-f, (S)-g, (S)-h, (S)-i).

**Fig. 2**

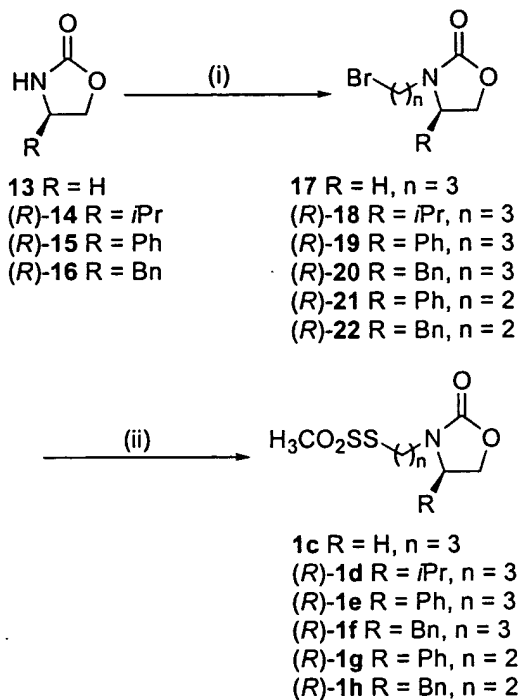
## Scheme 2. Synthesis of Mandelate-based Ligands



Reagents: (i)  $\text{Me}_2\text{SO}_4$ , NaOH,  $\text{H}_2\text{O}$ , 37%; (ii) MeOH,  $\text{H}^+$ ; (iii) MOM-Cl,  $\text{CH}_2\text{Cl}_2$ ,  $\text{Et}_3\text{N}$  (90% 2 steps);  
 (iv) For (R)-3:  $\text{BH}_3$ , THF, 82%; For (R)-5:  $\text{LiBH}_4$ , THF, 97%; (v)  $\text{MeSO}_2\text{Cl}$ ,  $\text{CH}_2\text{Cl}_2$ ,  $\text{Et}_3\text{N}$ ;  
 For (R)-8: 100%; (vi) LiBr, acetone; For (R)-10: 84%; For (R)-11: 78% 2 steps; (vii)  $\text{NaSSO}_2\text{CH}_3$ , DMF;  
 For (R)-12: 61%; (viii) TFA,  $\text{H}_2\text{O}$ , 82%.

**Fig. 3**

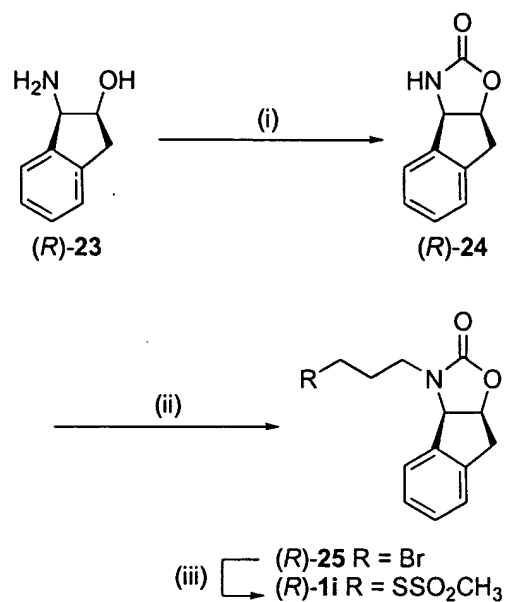
### Scheme 3. Synthesis of Oxazolidinone-based Ligands



Reagents: (i) KOH, DMSO, Br (CH<sub>2</sub>)<sub>n</sub>Br;  
 (ii) NaSSO<sub>2</sub>CH<sub>3</sub>, DMF.

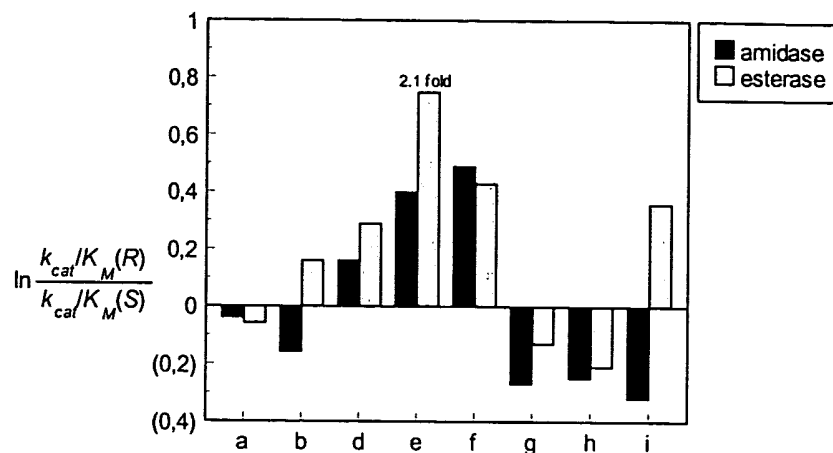
**Fig. 4**

#### Scheme 4. Synthesis of Indanol-based Ligands

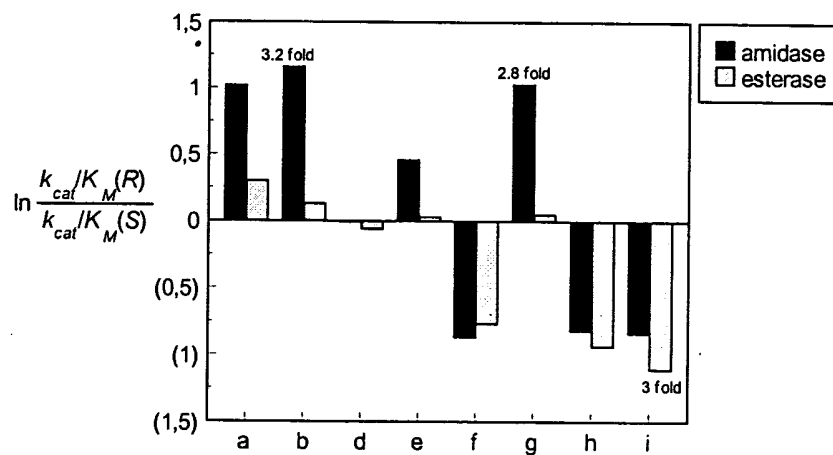


Reagents: (i) triphosgene,  $\text{CH}_2\text{Cl}_2$ ,  $\text{Et}_3\text{N}$ , 100%;  
(ii)  $\text{KOH}$ ,  $\text{DMSO}$ ,  $\text{Br}(\text{CH}_2)_3\text{Br}$ ; (iii)  $\text{NaSSO}_2\text{CH}_3$ ,  
 $\text{DMF}$ .

**Fig. 5**

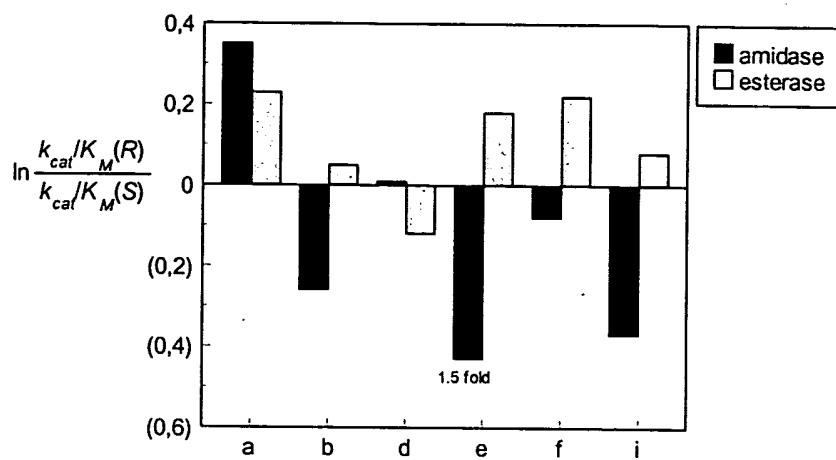


**Fig. 6A**



**Fig. 6B**

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**Fig. 6C**